



Thursday, January 12, 2017

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: JANUARY NEPDES
Sample ID#s: BX15706

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 12, 2017

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G9085

Custody Information

Collected by: KG
Received by: B
Analyzed by: see "By" below

Date

01/04/17
01/04/17

Time

7:00
15:44

Laboratory Data

SDG ID: GBX15706
Phoenix ID: BX15706

Project ID: JANUARY NEPDES
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.019	0.005	mg/L	1	01/06/17	TH	E200.7
B.O.D./5 day	5.8	4.0	mg/L	2	01/04/17 19:15	CB/RM	SM5210B-01
C.O.D.	170	10	mg/L	1	01/05/17	MSF	SM5220D-97
Ammonia as Nitrogen	0.67	0.05	mg/L	1	01/11/17	WHM	E350.1
Nitrite-N	0.010	0.010	mg/L	1	01/04/17 21:15	KD	E353.2
Nitrate-N	12.6	0.20	mg/L	10	01/04/17 21:21	KD	E353.2
Phenolics	< 0.015	0.015	mg/L	1	01/06/17	BS	E420.4
Nitrogen Tot Kjeldahl	6.31	0.10	mg/L	1	01/11/17	WHM	E351.1
Phosphorus, as P	2.56	0.050	mg/L	5	01/05/17	MI	SM4500PE-99
Total Suspended Solids	31	5.6	mg/L	1.1	01/05/17	CL/KH	SM2540D-97
Total Metals Digestion	Completed				01/04/17	RVM/BF	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 12, 2017

Reviewed and Released by: Deb Lawrie, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 12, 2017

QA/QC Data

SDG I.D.: GBX15706

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 371817 (mg/L), QC Sample No: BX15260 (BX15706)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.005	0.008	0.007	NC	100			108			75 - 125	20



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 12, 2017

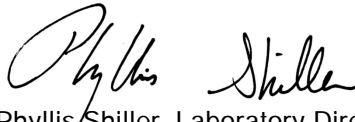
QA/QC Data

SDG I.D.: GBX15706

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 372047 (mg/L), QC Sample No: BX14462 (BX15706)													
Phenolics	BRL	0.015	<0.015	<0.015	NC	99.5			85.3			85 - 115	20
QA/QC Batch 371878 (mg/L), QC Sample No: BX15579 (BX15706)													
C.O.D.	BRL	10	<10	<10	NC	99.7			103			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 371890 (mg/L), QC Sample No: BX15611 (BX15706)													
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	86.0						85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 372377 (mg/L), QC Sample No: BX15636 (BX15706)													
Ammonia as Nitrogen	BRL	0.05	0.60	0.59	1.70	109			96.7			85 - 115	20
Nitrogen Tot Kjeldahl	BRL	0.10	2.29	2.08	9.60	91.5			91.5			85 - 115	20
QA/QC Batch 371954 (mg/L), QC Sample No: BX15642 (BX15706)													
Phosphorus, as P	BRL	0.01	3.53	3.68	4.20	105			95.7			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 371857 (mg/L), QC Sample No: BX15732 (BX15706)													
Nitrate-N	BRL	0.02	0.26	0.26	0	101			95.9			85 - 115	20
Nitrite-N	BRL	0.01	0.125	0.13	3.90	95.2			106			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 371838 (mg/L), QC Sample No: BX15751 (BX15706)													
B.O.D./5 day	BRL	2.0	5.1	5.3	NC	98.5			109			70 - 130	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
January 12, 2017

Thursday, January 12, 2017

Criteria: None

State: MA

Sample Criteria Exceedances Report

GBX15706 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Temp (°C) Pa of

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



PHOENIX

Environmental Laboratories, Inc.

Customer:	Barnhardt	Project:	January NERDES 2017	Project P.O.:	69085
Address:	PO Box 3 247 Main Rd	Report to:	Ketha Gammali	Phone #:	413-624-3471 x3702
	Colgan MASS 01340	Invoice to:	Barnhardt	Fax #:	

Client Sample - Information - Identification

Sampler's
Signature

Date: 1-4-18

Matrix Code:

DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

[illegible]

Relinquished by:	Accepted by:
------------------	--------------

Accepted by:

Time:

☐ **Direct Exposure**
(Residential)

CT

MA

Data Format	
-------------	--

Comments, Special Requirements or Regulations:

Please! use the same sample for Ammonia nitrogen as N and TKN

Turnaround:

<input type="checkbox"/>	1 Day*
<input type="checkbox"/>	2 Days*
<input type="checkbox"/>	3 Days*
<input checked="" type="checkbox"/>	Standard
<input type="checkbox"/>	Other

Thank you

☐ Other

State where samples were collected:

*** SURCHARGE APPLIES**